

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells et al.

Appl. No.: 09/476,093

Filed: January 3, 2000

For: Aliasing Communication System

and Method with Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service (As

Amended)

Confirmation No.: 7306

Art Unit: 2685

Examiner: Chow, Charles Chiang

Atty. Docket: 1744.0260001

RECEIVED

NOV 1 9 2004

Technology Center 2600

Fifth Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Fifth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fourth Supplemental Information Disclosure Statement filed on May 11, 2004 in connection with the above-captioned application.

Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AP59 and AH62 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent No. 6,608,647, Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," *IEEE Journal of Selected Topics in Quantum Electronics*, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996); Simoni, A. et al., "A Digital Camera for Machine Vision," 20th International Conference on Industrial Electronics, Control and Instrumentation, IEEE, pp. 879-883 (September 1994); and Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," Electronics & Communication Engineering Journal, IEEE, pp. 37-47 (February 1998), which have already been cited in the present application.

Document AG60 was cited in an Office Action in related U.S. Patent Application No. 09/669,634, filed September 26, 2000, entitled "High Frequency Translator and Method of High Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,955,992; 5,999,561; 6,686,879; 6,049,706; 6,421,534; and 6,560,301, and German Patent No. DE 196 48 915 A1 (and it's translation), which have already been cited in the present application.

Documents AH60 and AI60 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System, and Apparatus for Balanced Frequency Up-conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 6,091,940; 6,370,371; 6,694,128; and 6,704,549, which have already been cited in the present application.

Documents AA61-AC61 were cited in an Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter. Also cited in said Written Opinion was U.S. Patent No. 5,483,600, which has already been cited in the present application.

Documents AD61-AI61 were cited in an Office Action in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,483,600, which has already been cited in the present application.

Documents AA62-AC62 were cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,937,013; 6,014,551; 6,073,001; 6,085,073; and 6,314,279, which have already been cited in the present application.

Documents AD62-AG62 were cited in an Office Action in related U.S. Patent Application No. 09/986,764, filed November 9, 2001, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AI62 and AA63-AC63 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/987,193, filed November 13, 2001, entitled "Method and Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

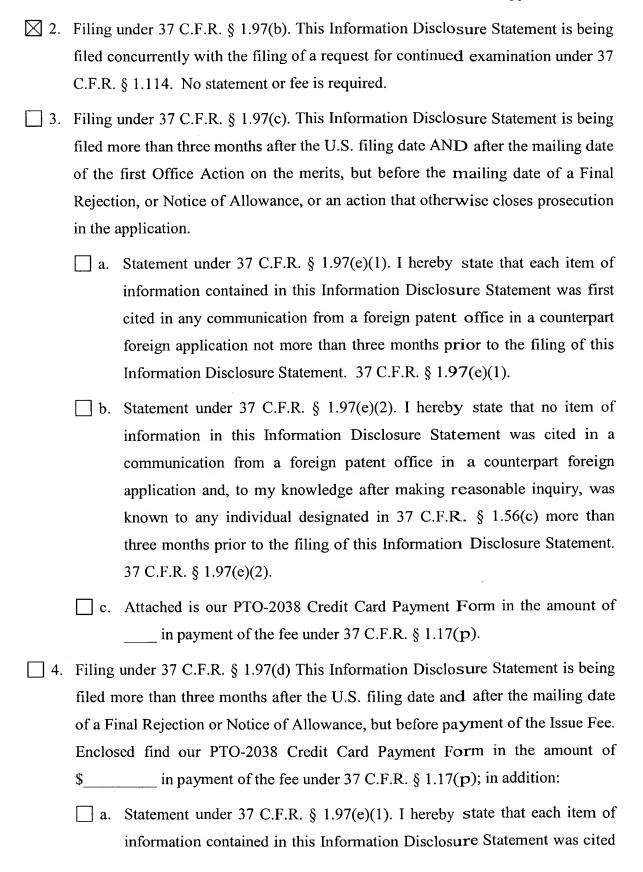
Document AD63 was cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

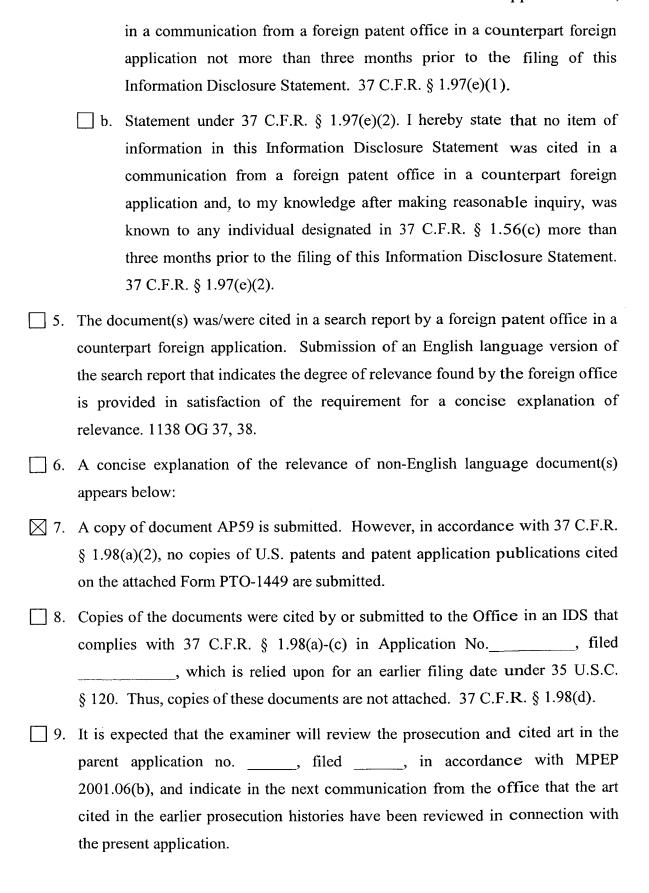
Document AE63 is a co-owned patent which is directed to related subject matter.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.





2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution histories have been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

Date:

1100 New York Avenue, N.W.

11/16/04

Washington, D.C. 20005-3934

(202) 371-2600

332964 1.DOC

FORM PTO-1449					ATTY. DOCKET NO. 1744.0260001	APPI	ICATION NO	Page 1 of 4
		FORM	PTO-1449		INVENTORS		70,093	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				Sorrells et al. FILING DATE ART UNIT				
INFOR	MATION	I DIS	CLOSURE STATEM		January 3, 2000	2685		
EXAMINER	1	1		U.S. PAI	ENT DOCUMENTS			T
INITIAL	AA	D	OCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	АВ							
	AC							
	AD					REC	IVED	
	AE					NOV 1	9 2004	
	AF						lenner 2600	
	AG60	5	,345,239	09/1994	Madni et al.		ACONOL EDIO	
	AH60	5	,260,973	11/1993	Watanabe			
	A160	6	,307,894 B2	10/2001	Eidson <i>et al.</i>			
			F	OREIGN P	ATENT DOCUMENTS			
EXAMINER INITIAL		D	OCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ							N
	AK							Ye N
	AL							Ye N
	АМ							Ye N
			OTHER (Include	ding Author	r, Title, Date, Pertinent	Pages, etc.)	· · · · · · · · · · · · · · · · · · ·	
	AN							

	AO							
	AP	<u>59</u>	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 nd Edition, McGraw-Hill Inc., pp. 41-45 (1977).					
	AQ							
.	AR					,		
		J				DATE CO	NSIDERED	
EXAMINER						DATE		

Page 2 of 4 ATTY, DOCKET NO. APPLICATION NO. MAMPARA 09/476,093 1744.0260001 FORM PTO-1449 **INVENTORS** Sorrells et al. FIFTH SUPPLEMENTAL **ART UNIT** FILING DATE INFORMATION DISCLOSURE STATEMENT 2685 January 3, 2000 **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT NUMBER CLASS INITIAL DATE SUB-CLASS FILING DATE NAME 6,091,289 **AA61** 07/2000 Song et al. 6,437,639 B1 AB61 08/2002 Nguyen et al. AC61 2002/0037706 A1 03/2002 Ichihara AD61 04/1984 4,441,080 Saari 4,873,492 10/1989 AE61 Myer **Technology Center 2600** 5,697,074 AF61 12/1997 Makikallio et al. AG61 5,784,689 07/1998 Kobayashi **AH61** 6,335,656 B1 01/2002 Goldfarb et al. AI61 6,690,232 B2 02/2004 Ueno et al. **FOREIGN PATENT DOCUMENTS** EXAMINER COUNTRY CLASS SUB-CLASS **TRANSLATION** INITIAL DOCUMENT NUMBER DATE Yes ΑJ No Yes ΑK No Yes ΑL No Yes AM No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN AO AP AQ

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

EXAMINER

AR

7) 62	12 P						Page 3 of 4
PANTAPA				ATTY. DOCKET NO.		ICATION NO	
RANHARM	, FC	ORM PTO-1449		1744.0260001 INVENTORS	09/47	0,093	
	FIFTH	SUPPLEMENTAL		Sorrells et al. FILING DATE	ART	INIT	
INFOF	RMATION	DISCLOSURE STATEME		January 3, 2000	2685		
EXAMINER	-		U.S. PAT	ENT DOCUMENTS			
INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA62	5,636,140	06/1997	Lee et al.			
*	AB62	6,366,622 B1	04/2002	Brown et al.			
	AC62	6,600,795 B1	07/2003	Ohta et al.			
	AD62	4,250,458	02/1981	Richmond et al.	REC	EIVED	
	AE62	5,760,629	06/1998	Urabe et al.	NOV	1 9 2004	
	AF62	6,084,465	07/2000	Dasgupta	- Toolanolog	y Center 26 0	n
	AG62	6,204,789 B1	03/2001	Nagata	165 HOUG	y Oction 200	
	AH62	6,064,054	05/2000	Waczynski et al.			
	Al62	5,218,562	06/1993	Basehore et al.			
		F	OREIGN P	ATENT DOCUMENTS			<u> </u>
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION Yes
	AJ						No
	AK				ŧ		Yes No
	AL						Yes No
	AM						Yes No
		OTHER (Inclue	ding Autho	or, Title, Date, Pertinent F	Pages, etc.)	I	
	AN						
	100						
	AO						
			3 13 10 2 1			1,000	
	AP						
	AQ						
	AR						
EXAMINER		***************************************			DATE CO	NSIDERED	-
EXAMINER: In	nitial if refere	ence considered, whether or	not citation is	in conformance with MPEP 609	. Draw line throug	h citation if not	in conformance
332391_1.DO		de copy of this form with nex	Communication	оп то Аррисапт.			

FORM PTO-1449				ATTY. DOCKET NO. APPLICATION NO. 1744.0260001 09/476,093 INVENTORS			Page 4 of 4
				Sorrells et al.			
INFOR		<u>SUPPLEMENTAL</u> DISCLOSURE STATE	MENT	FILING DATE January 3, 2000	ART 2685	UNIT	
	*	<u> </u>	U.S. PAT	ENT DOCUMENTS			*
EXAMINER INITIAL		DOCUMENT NUMBER	R DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA63	5,239,496	08/1993	Vancraeynest			
	AB63	5,896,304	04/1999	Tiemann et al.			
	AC63	6,005,903	12/1999	Mendelovicz			
	AD63	5,834,979	11/1998	Yatsuka			
	AE63	6,798,351 B1	09/2004	Sorrells et al.		EIVED	
	AF					1 9 2004	
	AG				Technolo!	y Center 26	00
	АН		NA N				
-	Al						
			FOREIGN P	ATENT DOCUMENTS		1	1
EXAMINER INITIAL		DOCUMENT NUMBER	R DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Ye:
	AL						Ye: No
	AM						Ye:
	<u> </u>	OTHER (Incl	uding Autho	r, Title, Date, Pertinent	Pages, etc.)		
	AN						
				-			
	AO	1 102					
	AP						
	AQ						
				-		· · · · · · · · · · · · · · · · · · ·	
	AR						
EXAMINER			<u></u>		DATE CO	NSIDERED	
-/ V WALLIATELY		nce considered, whether					